

Year	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

1. A fault-current-limiting circuit to be used in combination with a poly-phase circuit, said poly-phase circuit comprising:
- a plurality of inductive windings;
 - each of said windings having a first terminal connected to a common point;
 - at least one of said windings having a second terminal connected to an electrical load;
- said fault-current-limiting circuit comprising:
- a first electrical path between said common point and ground comprising:
 - a current-limiting device having a first state whereat current passes through said device; and a second state whereat current substantially does not pass through said device and wherein said device switches from said first state to said second state when current through said device exceeds a pre-determined maximum;
 - a second electrical path between said common point and ground having an electrical resistance significantly greater than a resistance of said first path when said device is in said first state.
2. The fault-current-limiting circuit of claim 1, wherein said current-limiting device is one of a fuse and a circuit breaker.
3. The fault-current-limiting circuit of claim 2, wherein said one of said fuse and said circuit breaker is connected to said common point and ground.

4. The fault-current-limiting circuit of claim 3, wherein said second electrical path comprises a resistor connected in parallel with said one of said fuse and said circuit breaker.

5. The fault-current-limiting device as claimed in claim 3, wherein said pre-determined maximum current is chosen a percentage of steady-state load current.

6. The fault-current-limiting circuit of claim 4, wherein said poly-phase circuit is a three-phased circuit.

7. The fault-current-limiting circuit of claim 5, wherein said pre-determined maximum current is at least ten percent of a steady-state load current passing through one of said windings.

8. A fault-current-limiting circuit to be used in combination with a poly-phase circuit, said poly-phase circuit comprising:

a plurality of inductive windings;

each of said windings having a first terminal connected to a common point;

at least one of said windings having a second terminal connected to an electrical load;

said fault-current-limiting circuit comprising:

first electrical connection means between said common point and said ground point;

said first electrical connection means comprising

an actuatable current-limiting means having a first and second state

wherein current passes through said current limiting means in said first state and wherein current does not pass through said current limiting means in said second state;

actuating means to switch said current limiting means from said first state to said second state when current through said current switching means exceeds a pre-determined maximum;

second electrical connection means between said common point and ground having an electrical impedance significantly greater than an electrical impedance of said first electrical connection means when said current-limiting means is in said first state.

9. The fault-current-limiting circuit of claim 8, wherein said polyphase circuit is a three-phased circuit.
10. The fault-current-limiting circuit of claim 9, wherein said current limiting means and said actuating means comprise one of a fuse and a circuit breaker.
11. The fault-current-limiting circuit of claim 10, wherein said second electrical connection means comprises a resistor connected to said common point and ground.
12. The fault-current-limiting circuit of claim 11, wherein said one of said fuse and said circuit breaker is connected in parallel with said resistor.
13. The fault-current-limiting circuit of claim 12 wherein said pre-determined maximum is a current in excess of ten percent of steady-state current through one of said windings.
14. The fault-current-limiting circuit of claim 1, further comprising an alarm in communication with one of said first and second path, adapted to sense when said current limiting device is in said second state and generate a signal when said current limiting device

is in said second state.

15. The fault-current-limiting circuit of claim 14, wherein said signal is one of an audible and visual signal.

16. The fault-current-limiting circuit of claim 8 further comprising an alarm in communication with one of said first and second electrical connection means, adapted to sense when said current limiting means is in said second state and generate a signal when said current limiting device is in said second state.

17. The fault-current-limiting circuit of claim 16, wherein said signal is one of an audible and visual signal.